

Abstract of the Disclosure

Disclosed is a genomic DNA encoding a polypeptide capable of inducing the production of interferon- γ by immunocompetent cells. The genomic DNA efficiently expresses the polypeptide with high biological activities of such as inducing the production of interferon- γ by immunocompetent cells, enhancing killer cells' cytotoxicity and inducing killer cells' formation, when introduced into mammalian host cells. The high biological activities of the polypeptide facilitate its uses to treat and/or prevent malignant tumors, viral diseases, bacterial infectious diseases and immune diseases without serious side effects when administered to humans.